

Bair Paws® Model 850 Warming Unit Service Manual



Warning: Electrical Shock Hazard. There are electrically live parts within the warming unit when it is connected to a power source, even when the hand-held temperature controller is in the OFF position.

Please forward to
Biomedical Engineering Department



Patient Adjustable Warming System
by Bair Hugger® Therapy

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Introduction to the Bair Paws® Patient Adjustable Warming System

The Bair Paws patient adjustable warming system consists of the Model 850 forced-air warming unit and disposable warming gowns. The Bair Paws Model 850 and warming gown can provide comfort warming and prewarming to patients in pre-operative settings. In post-operative settings the Model 850 can provide comfort warming.

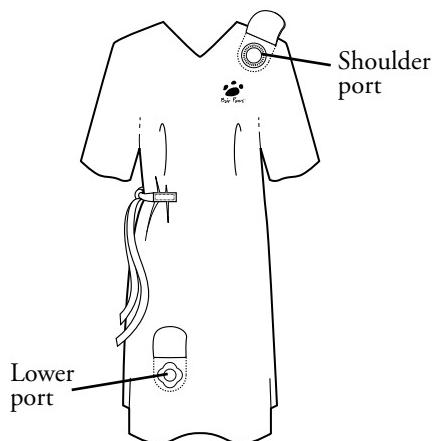
This manual includes service procedures and unit specifications for the Model 850 warming unit. Please refer to the Instructions for Use included with the Bair Paws warming gown for more information about the gown.

Bair Paws Model 850 Warming Unit



The Bair Paws Model 850 warming unit has the following key elements: a blower, a heating element, and a hand-held temperature controller. The warming unit delivers warmed air through a hose that is connected to a port in a Bair Paws gown. The patient can adjust the air temperature using the temperature controller.

Bair Paws Warming Gowns



The Bair Paws single-use warming gown has an integral, channeled insert that delivers warm air through small perforations to warm the patient. The front of the gown has two ports. The lower port accepts the hose of a Bair Paws Model 850 warming unit. The shoulder port is sized for the hose of a Bair Hugger 500 or 700 series temperature management unit.



Important Information about the Bair Paws Model 850 Warming Unit

Indications/Intended Use

The Model 850 warming unit is indicated for patient warming. This warming unit has been designed for use with the Bair Paws warming gowns in all preoperative and postoperative settings.

Contraindication

Do not apply heat to lower extremities during aortic cross-clamping. Thermal injury may occur if heat is applied to ischemic limbs.

Warnings

-  Do not warm patients with the warming unit's hose alone. Thermal injury may result. Always connect the hose to a Bair Paws warming gown before providing patient warming.
- Do not use a forced-air warming device over transdermal medications; increased drug delivery, patient death, or injury may occur.
- Use only Bair Paws warming gowns with the Model 850 warming unit. This warming unit has been designed to operate safely with Bair Paws warming gowns; use with other products may cause thermal injury. To the full extent permitted by law, the manufacturer and/or importer declines all responsibility for thermal injury resulting from the unit being used in conjunction with products other than Bair Paws warming gowns.
- The Model 850 warming unit is not intended for use in the operating room.
- Do not allow the warming unit's hose to contact the patient's skin during patient warming. Thermal injury may result.
- Position the temperature controller cord and the hose away from the patient's neck or shoulders to avoid entanglement and/or injury.
- EXPLOSION HAZARD: Do not use in the presence of flammable anesthetics.



Precautions

- Do not initiate patient warming unless the Model 850 warming unit is safely placed on a hard surface or securely mounted. Otherwise, injury may result.
- The Model 850 warming unit meets the international electronic interference requirements of EN 60601-1-2 and EN 55011. However, if radio frequency interference with monitoring equipment occurs, connect the warming unit to a different power source.
- Monitor the patient's temperature every 10-20 minutes or according to institutional protocol and monitor the patient's vital signs regularly.

Proper Use and Maintenance

Arizant Healthcare Inc. assumes no responsibility for the reliability, performance, or safety of the unit if any of the following events occur:

- Modifications or repairs are performed by unqualified personnel.
- The warming unit is used in a manner other than that described in the Operator's Manual or Service Manual.
- The warming unit is installed in an environment that does not meet the appropriate electrical and grounding requirements.

Read Before Servicing Unit

All repair, calibration, and servicing of the Model 850 warming unit must be performed by qualified, medical equipment service technicians who are familiar with good practice for medical device repair. If the warming unit does not require the manufacturer's attention, Arizant Healthcare Inc. will ship replacement parts to your location. Perform all repairs and maintenance in accordance with the instructions provided with the replacement parts.

Safety Inspection

Perform a safety inspection after making repairs to the Model 850 unit and before returning the unit to service. A safety inspection should include calibrating the operating temperature settings and testing the over-temperature detection function as described in the *Service Procedures* section.



Preparing the Bair Paws Model 850 Warming Unit for Use

Before using the warming unit, make sure that it is safely placed on a flat, hard surface such as a table, or securely mounted on a wall, IV pole, or bedrail.

CAUTION: Do not place the warming unit on a soft or uneven surface, such as a bed, or the air intake may become blocked.

A wall-mount bracket is shipped with every warming unit; the brackets for mounting the warming unit to an IV pole or a bedrail are available separately. Please contact your local sales representative or call Arizant Healthcare® customer service at 1-800-733-7775 for more information about ordering mounting brackets.

Installing the Wall-mount Bracket

1. Using the four wall-screw holes on the wall-mount bracket (see Figure 1) as a template, mark the position for the four wall anchors on the desired wall. The use of a level is recommended.
2. Install four suitable wall anchors at the marked positions. If using the provided self-drilling wall anchors, use a Phillips screwdriver to screw the anchors into position. If installing into industrial-grade plasterboard, predrilling may be required.
3. Hold the wall-mount bracket in position against the wall.
4. Screw the four provided screws through the wall-mount holes and into the wall anchors.

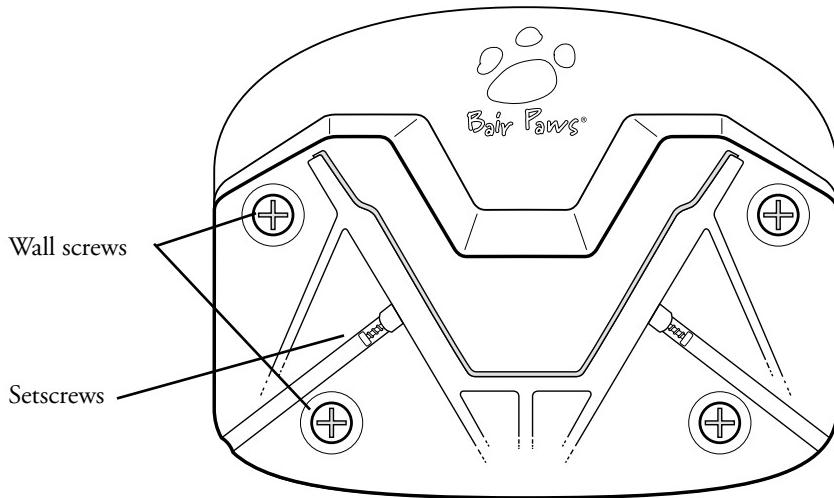


Figure 1. Front view of wall-mount bracket.

Mounting the Warming Unit to the Wall-mount

1. Slide the V-shaped bracket on the back of the warming unit into the groove of the wall-mount bracket.
2. Tighten the 2 setscrews located on either side of the wall-mount bracket using a three-inch-long (or longer) small Phillips screwdriver to lock the unit in place (see Figure 2).

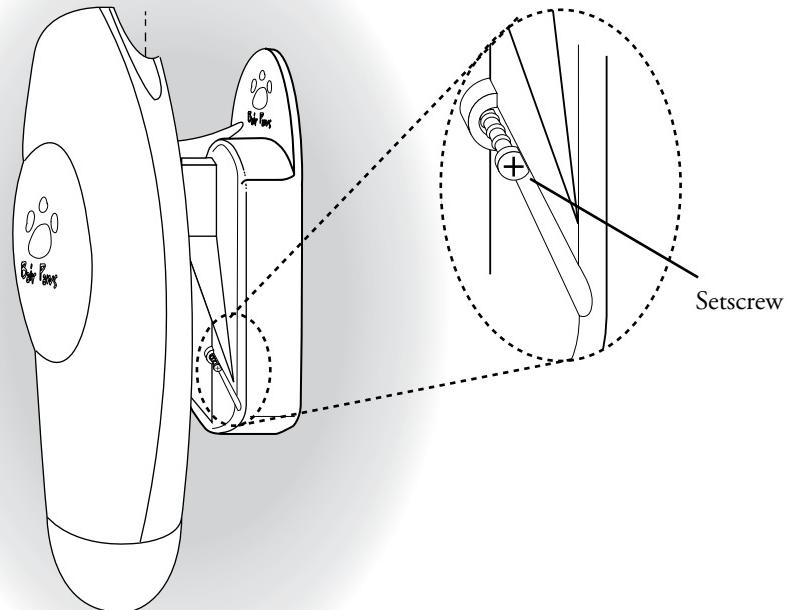


Figure 2. Side view of warming unit in the wall-mount bracket.



Mounting the Warming Unit on an IV Pole

CAUTION: To prevent tipping, mount the Model 850 warming unit on an IV pole at a height that ensures stability. We recommend mounting the warming unit no higher than 44 in. (112 cm) from the floor on an IV pole with a minimum wheelbase radius of 14 in. (35.6 cm). Failure to do so may result in IV pole tipping, leading to potential catheter site trauma and other patient injuries.

NOTE: The wall-mount bracket is shipped attached to the IV pole mount.

1. Position the IV pole-mount at the desired height on the IV pole.
2. Turn the clamp knob on the IV pole-mount clockwise to tighten the clamp to the pole (figure 3).
3. Slide the V-shaped bracket on the back of the warming unit into the groove of the IV pole-mount.

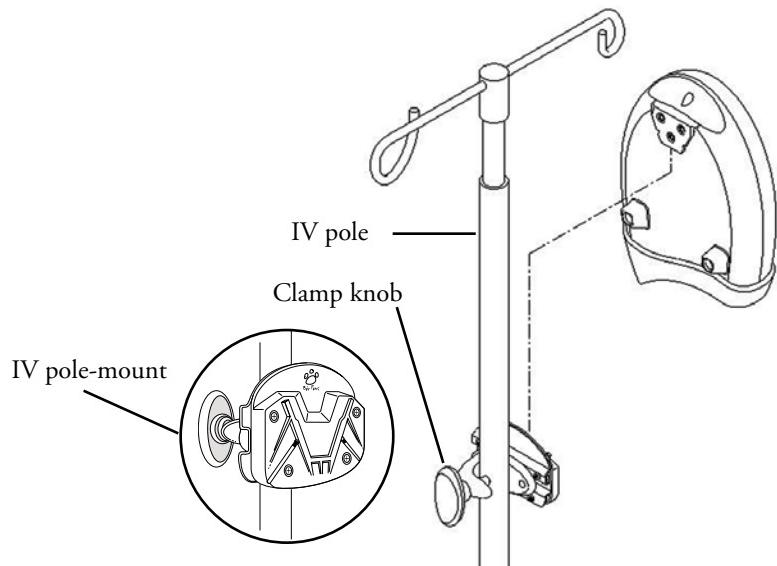


Figure 3. Installing a warming unit onto an IV pole.

Mounting the Warming Unit on a Bedrail

1. Remove the V-shaped bracket on the back of the warming unit.
2. Attach the rail-mount to the warming unit using 3 screws.
3. Hang the rail mount on the bedrail.
4. Wrap the safety strap around the bedrail and connect the end to the fastener on the strap.
The safety strap will prevent the warming unit from falling if the unit is accidentally dislodged from the bedrail (see figure 4).

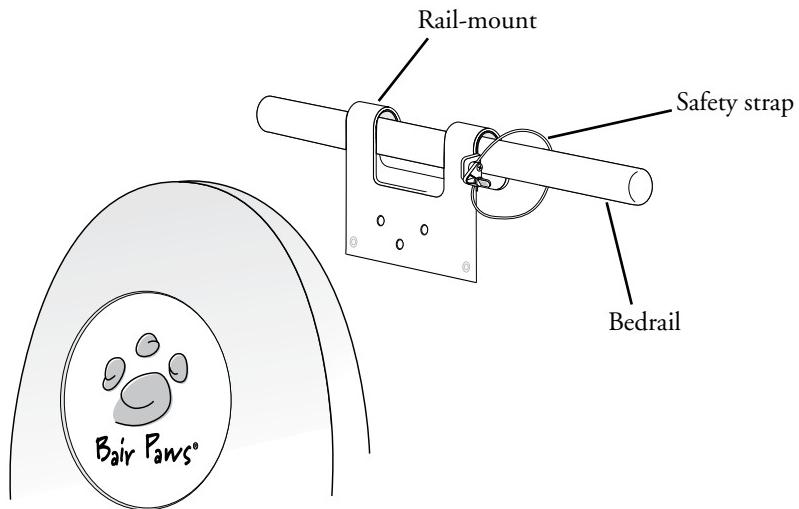


Figure 4. Hooking the rail-mount over a bedrail.



Mounting the Warming Unit with a Rail-mount to the Wall

1. Using the wall-screw holes on the rail-to-wall bracket (see Figure 5) as a template, mark the position for the two wall anchors on the desired wall. The use of a level is recommended.
2. Install two suitable wall anchors at the marked position. If using the provided self-drilling wall anchors, use a Phillips screwdriver to screw the anchors into position. If installing into industrial-grade plasterboard, predrilling may be required.
3. Hold the rail-to-wall bracket in position against the wall.
4. Screw the two provided screws through the bracket holes and into the wall anchors.
5. Hook the warming unit with the attached rail-mount to the rail-to-wall bracket as depicted in Figure 5.

PRECAUTION: For use only with the Model 850 warming unit.

NOTE: A minimum of two wall anchors must be used to secure the rail-to-wall bracket to the wall. Additional wall anchors (up to a total of four) can be used for extra support.

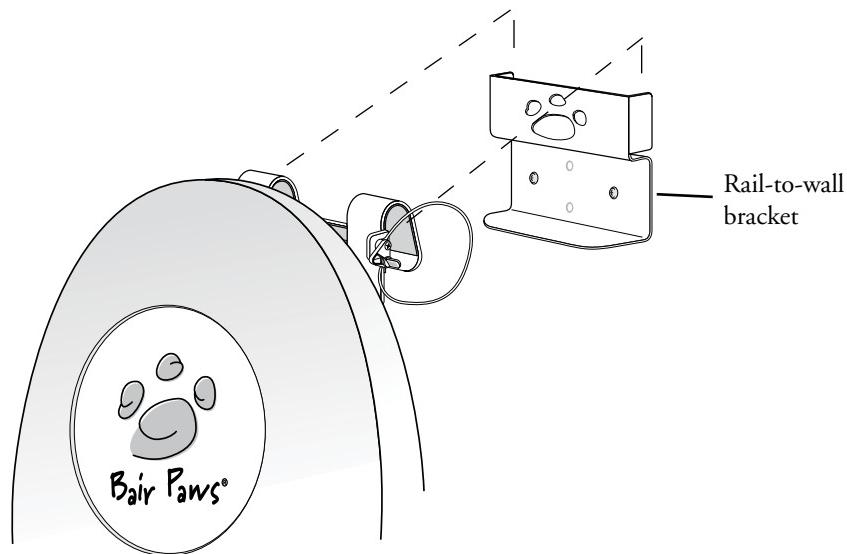


Figure 5. Placing the warming unit with a rail-mount onto the rail-to-wall bracket.

Using the Temperature Controller Holder

The controller holder helps to prevent cord clutter around the patient or accidental damage to the controller.

1. Press the holder onto the warming unit hose so it is within the patient's reach (see Figure 6).
2. Slide the temperature controller into the holder. It should fit securely with the dial facing the patient (see Figure 7).

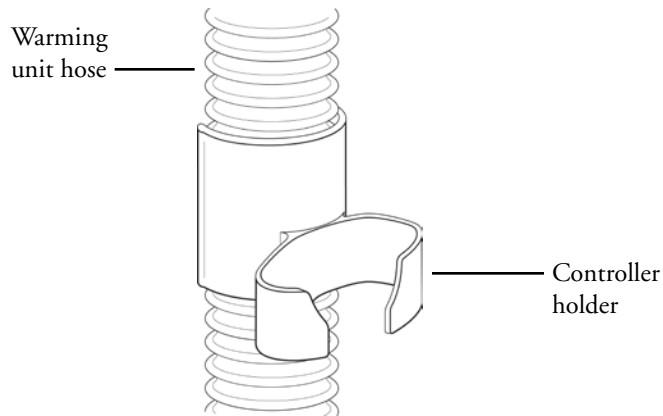


Figure 6. Temperature Controller holder.

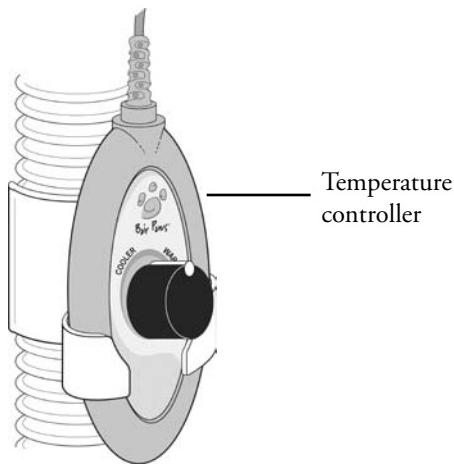


Figure 7. Temperature Controller seated in holder.



Service Procedures

Calibrating the Operating Temperatures

Service Frequency

- Calibrate the unit before placing it in service if the ambient temperature where the warming unit will be used is higher than 24°C (75°F).
- Always recalibrate after performing service procedures.
- Routinely calibrate every 6 months.

Tools/Equipment Needed

- Model 90055 Temperature Test Kit
- Thermocouple
- 2 mm screwdriver
- Medium Phillips screwdriver

Warnings

- The Model 850 hand-held temperature controller must be at its maximum (warmest) setting when calibrating; otherwise, temperature settings may be inaccurate and patient injury could result.
- Do not calibrate the Model 850 warming unit above 40°C; patient injury may result.

Precautions

- Perform all calibrations of the Model 850 warming unit using an Arizant Healthcare Model 90055 Temperature Test Kit.
- Perform calibration testing at an ambient temperature similar to the area where the Model 850 warming unit will be used.

Arizant Healthcare Inc. assumes no responsibility for the reliability, safety, or performance of the Model 850 warming unit if calibration tests or adjustments are made in any manner other than those described here. Improper measurement or adjustment of the normal operating temperature for the Model 850 unit could result in patient exposure to temperatures outside of the indicated range and may lead to patient injury.

Method

1. Turn the warming unit “ON” and set the controller to its maximum (warmest) setting. Allow the system to warm 10 minutes before starting the calibration.
2. Press the clip buttons on the hose and insert the hose end into the temperature test fixture.
3. Extend the hose straight to its full length. Remove the 2 screws that attach the case bottom to the warming unit and slide it down the hose.
4. Insert the thermocouple wire into the grommet on the test fixture.

5. Insert a 2 mm screwdriver into the calibration access hole approximately 1/2 inch (see Figure 8). Turn pot until the steady state temperature reading is 40°C on the thermocouple. Wait at least 5 minutes to ensure steady state.

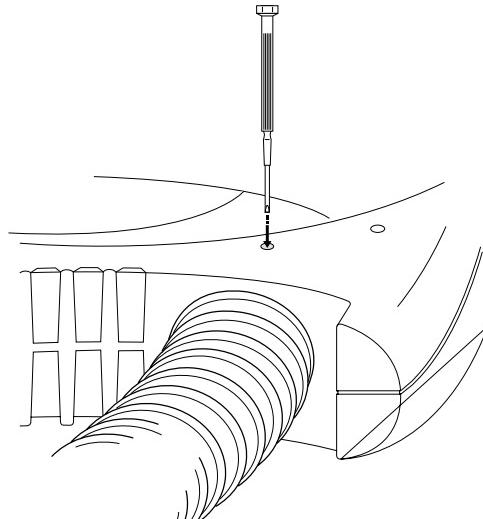


Figure 8. Calibration access hole to adjust pot.

6. Turn the temperature controller to its minimum (coolest) setting without turning it "OFF." The temperature should read 32°C or less on the thermocouple.

Testing the Over-temperature (OT) Circuit Service Frequency

Test every 6 months.

Tools/Equipment Needed

- Model 90055 Temperature Test Kit
- Thermocouple
- Small screwdriver
- Medium Phillips screwdriver

Method

NOTE: The OT threshold temperature cannot be adjusted. If problems occur, contact Arizant Healthcare customer service.

1. Turn the warming unit "ON" and set the controller to its maximum (warmest) setting. Allow the system to warm 10 minutes before starting the test.
2. Press the clip buttons on the hose and insert the hose end into the temperature test fixture.



3. With a small screwdriver, press the OT test button (see Figure 9). Continuously depress for the duration of the over-temperature test.* When functioning properly, the “Over-Temp” indicator will illuminate, the OT value will be below 53°C, and the unit will switch off within 2 minutes. If this does not occur, return the unit to Arizant Healthcare Inc. for service.

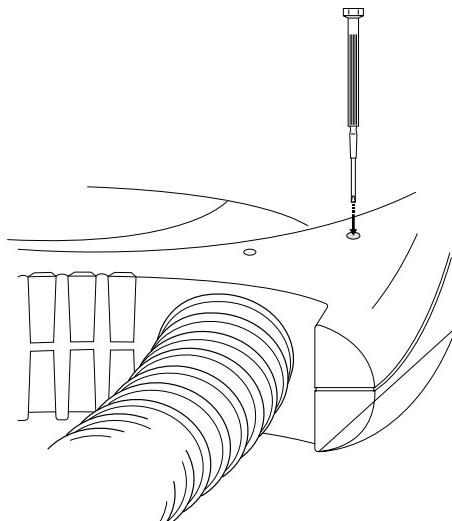


Figure 9. OT test button hole.

4. Reposition the case bottom and attach to the warming unit with 2 screws.

Replacing the Filter Service Frequency

Inspect the warming unit filter every 3 months and replace at least every 6 months.

Tools/Equipment Needed

- Medium Phillips screwdriver
- Replacement filters, available from Arizant Healthcare customer service

Method

1. Disconnect the warming unit from the power source.
2. Remove the 2 screws that attach the case bottom to the warming unit.
3. Slide the case bottom down the hose, remove the used filter, and replace with a new filter.
4. Reposition the case bottom and attach to the warming unit with the 2 screws.
5. Reconnect the warming unit to the power source and turn the temperature controller “ON” to make sure the warming unit functions properly before returning to service.

* Pressing the OT test button places the heater in a full-on, unregulated condition; therefore, the unit may become slightly warm to the touch.

Replacing the Temperature Controller and/or Hose

Tools/Equipment Needed

- Medium Phillips screwdriver
- Needle-nose pliers

Method

1. Disconnect the warming unit from the power source.
2. Remove the 2 screws that attach the case bottom to the warming unit.
3. Slide the case bottom down the hose to expose the hose connection point.
4. Remove the 2 screws that fasten the hose to the warming unit: 1 on front and 1 on the back of the warming unit.
5. Pull the hose out of the warming unit to expose the wire connector.
6. Unplug the wire connector so the hose assembly is separated from the unit (see Figure 10).

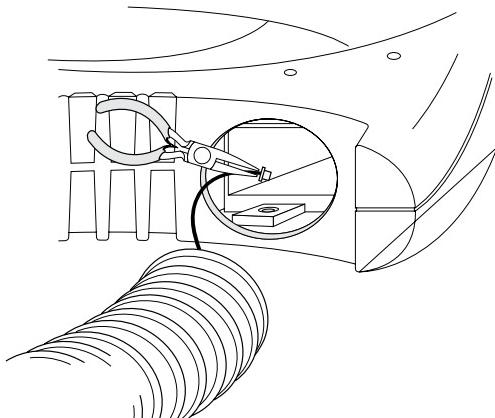


Figure 10. Wire connector.

7. Remove the 2 screws on the collar at the wire junction on the hose, and pull the wire out through the hose hole (see Figure 11).

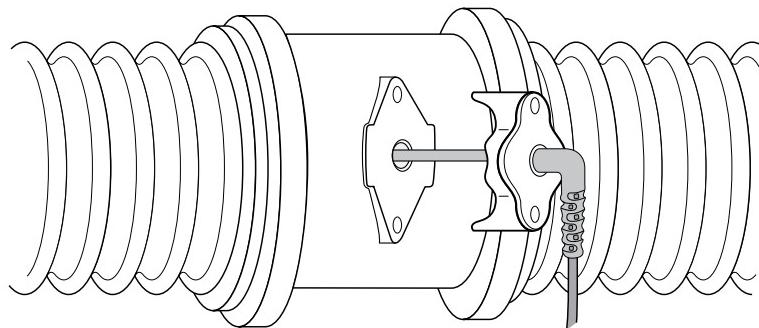


Figure 11. Warming unit hose wire junction.



8. Using either a replacement temperature controller assembly or a replacement hose, thread the wire through the hose hole. Hold the hose vertical and let the wire connector drop through to the end that attaches to the warming unit.
9. Reattach the hose to the warming unit by following steps 2-7 in reverse order.
10. Recalibrate the temperature and test the over-temperature circuit before returning the unit to service.

Replacing the Power Cord

Tools/Equipment Needed

- Medium Phillips screwdriver
- 1/32" flat screwdriver
- ESD strap
- Model 850 replacement power cord

Method

1. Disconnect the warming unit from the power source and put on an ESD strap before starting the procedure.
2. Remove the 2 screws that attach the case bottom to the warming unit and slide the case bottom down the hose.
3. Remove the 4 screws on the back side of the unit enclosure.
4. Remove the 1 remaining screw on the front side of the enclosure that holds the hose to the warming unit. Lift off the front enclosure.
5. Disconnect the hose and the temperature controller wire connector (see Figure 10).
6. Disconnect the 6-pin power connector by depressing and pulling on the snap tab.
7. Remove the 5 screws on the printed circuit board (PCB).
8. Disconnect the black wire and the white wire by inserting a 1/32" screwdriver into the corresponding slots in the power connector. Remove the PCB (see Figure 12).

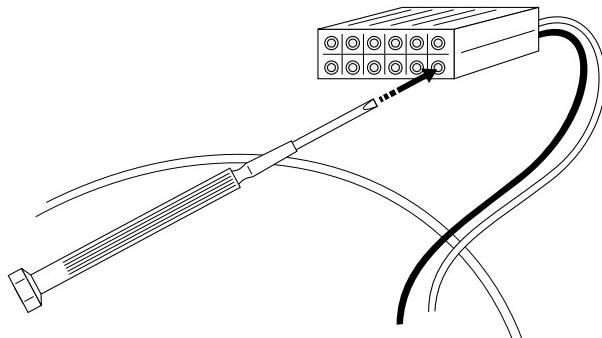


Figure 12. Power connector.

9. Remove 4 screws on the motor assembly and lift away from the warming unit enclosure. Pull out the old power cord.

10. Route the new power cord through the enclosure hole and around the case as shown. Make sure the cord is held firmly by the notches in the case. Thread the crimped black and white wires through the case opening as shown in Figure 13.

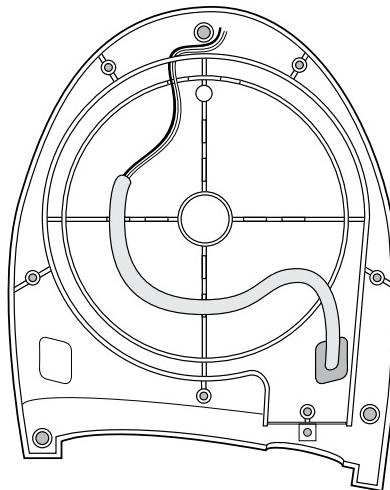


Figure 13. Power cord configuration in the warming unit case.

Reassembling the Warming Unit

11. Replace the motor assembly in the case and screw into place (see step 9). Make sure the motor wires are not pinched between the motor and the case.
12. Plug the black wire into slot 1 and the white wire into slot 3 in the power connector (see step 8).
13. Replace the PCB over the motor assembly and screw into place (see step 7). Make sure that the heaters are not damaged and the wires are not pinched between the case and the PCB.
14. Plug the power connector into the PCB (see step 6).
15. Seat the temperature controller wire connector into the PCB (see step 5).
16. Connect the hose to the unit, making sure the wire is not pinched between the hose end and the PCB.
17. Replace the front enclosure. On the back side, screw the enclosures together in 4 places (see step 3). Turn the unit over and fasten the screw over the hose (see step 4).
18. Replace the case bottom over the case. Make sure the filter stays in place. Screw the case bottom into the case in 2 places (see step 2).
19. Recalibrate the temperature and test the over-temperature circuit before returning the unit to service.



Cleaning the Warming Unit

Service Frequency

As needed.

Tools/Equipment Needed

- Soft cloth
- Mild cleaning solution or antimicrobial spray*
- Dry soft cloth

WARNING

Do not immerse any part of the warming unit while cleaning it. Moisture will damage the components, and thermal injury may result.

PRECAUTIONS

- Do not use a dripping wet cloth to clean the warming unit. Moisture may seep into the electrical contacts and damage the components.
- Do not use harsh solvents to clean the warming unit.* Solvents may damage the labels and other plastic parts.

Method

1. Disconnect the warming unit from the power source before cleaning.
2. Wipe the cabinet, the temperature controller, and the outside of the hose with a damp, soft cloth and a mild cleaning solution or antimicrobial spray.
3. Dry with a separate soft cloth.

* WINDEX® multi-use liquid cleaner, ENVIROCIDE® disinfectant, and ALCONOX® industrial cleaner are three products that can be used to clean the equipment, as well as 3% household bleach, isopropanol, ethanol, ammonia or other phosphate-based glass cleaning solutions.

WINDEX is a registered trademark of S.C. Johnson & Son, Inc.

ENVIROCIDE is a registered trademark of Metrex Research Corporation

ALCONOX is a registered trademark of Alconox, Inc.



Technical Support and Customer Service

U.S. Customer Service

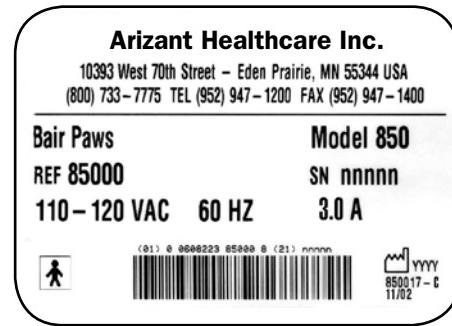
TEL:	FAX:
800-733-7775	800-775-0002
952-947-1200	952-947-1400

When You Call for Technical Support

Please be ready to give the Technical Support Representative the serial number of your Bair Paws warming unit. The serial number is located on the back of the unit. See figure below.

Repair and Exchange

Call Arizant Healthcare customer service if your Model 850 warming unit requires service. A customer service representative will give you a Return Authorization (RA) number. Please use this RA number on all correspondence concerning your warming unit. Your customer service representative will also send a shipping carton to you at no charge upon request.





Bair Paws Warming Unit Limited Warranty

Two-Year Limited Warranty^{a, c}

Arizant Healthcare Inc. (“Company”) warrants to the original end-user (“User”)^a that each Bair Paws warming unit (“Unit”)^b will be free from defects in materials and workmanship under normal use and service for two years^c from the date of shipment. **THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES APPLICABLE TO THE UNITS, SUCH AS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED AND EXCLUDED BY THE COMPANY.** Some jurisdictions may not allow the disclaimer of implied warranties, so the above limitations may not apply to you.

Limitation of Remedies

If, during the limited warranty period, a Unit or part is found to be defective because of defects in materials and workmanship under normal use and service, it will be repaired or replaced without charge. Defective Units or parts must be returned to Arizant Healthcare Inc., 10393 West 70th Street, Eden Prairie, MN 55344. Repair or replacement of a Unit or part under the terms of this limited warranty in no way lengthens the limited warranty period.

User's exclusive remedy, **IN LIEU OF ALL INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING FOR NEGLIGENCE**, is limited to repair or replacement of a defective Unit or part under the terms and conditions of this limited warranty. Company will bear no other expenses. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

This limited warranty does not apply to certain of the parts listed below or to any Unit in which parts other than replacement parts made or approved by the Company have been used if such parts are the cause of failure. Company shall have no obligation under this limited warranty to make repairs or replacements necessitated in whole or in part by accidents, fault, or negligence of User.

PART	WARRANTY PERIOD (from the date of shipment to User)
Filters	N/A
Fuses	N/A
Hose	1 year
Cords	1 year
Labels	1 year
Temperature controller	1 year
Mounting brackets	1 year

This limited warranty applies only to User and is valid only for the use of Units with Bair Paws gowns. The use of any gowns or other products not manufactured or approved by Company for use with Units invalidates this limited warranty. Use of Units in a manner not specified in the instructions for use invalidates this limited warranty. This limited warranty is non-transferable.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

- a. Distributors are not end-users unless they have purchased a unit for their sales representatives' use.
- b. This limited warranty is valid only for Bair Paws warming units. It does not apply to Bair Paws gowns or accessories or any other product.
- c. Refurbished Units have a one-year limited warranty from the date of shipment to User. As indicated below, this limited warranty does not apply to certain parts and other parts have a one-year limited warranty from the date of shipment to User.

Specifications

Physical Characteristics

DIMENSIONS OF WARMING UNIT	11 in. high x 2.5 in. deep x 7.7 in. wide 27.9 cm high x 6.4 cm deep x 19.6 cm wide
DIMENSIONS OF TEMPERATURE CONTROLLER	2.5 in. wide x 5.8 in. long 6.4 cm wide x 14.7 cm long
WEIGHT OF WARMING UNIT	6.3 lb; 2.9 kg.
MOUNTING OPTIONS	Wall mount bracket, IV pole clamp, and rail-mount bracket with safety strap.
HOSE	Detachable, flexible, and washable. 78 in. long x 1.5 in. wide; 198 cm long x 3.8 cm wide
FILTRATION SYSTEM	Dust filter included.
RECOMMENDED FILTER CHANGE	Change at least every 6 mo.

Temperature Characteristics

TEMPERATURE CONTROL	Electronically controlled using integrated circuit sensor.
HEAT GENERATED	750 BTU/hr (average)
AVERAGE OPERATING TEMPERATURES AT THE END OF THE HOSE	Variable: ambient to $40^\circ \pm 3^\circ\text{C}$ ambient to $104^\circ \pm 5.4^\circ\text{F}$

Safety System Characteristics

THERMOSTAT	Independent electronic and heater (electromechanical)
OVERCURRENT PROTECTION	Fused input line.
SAFETY FEATURE	Over-temperature: color indicator light illuminates, heater and blower shut down.
CERTIFICATIONS	IEC 60601-1; UL 60601-1; CAN/CSA-C22.2, No. 601.1; EN 60601-1-2; EN 55011; ASTM F2196-02
CLASSIFICATIONS	Classified under EN 60601-1 Guidelines (and other national versions of the Guidelines) as Class II, Type BF, Ordinary equipment, Continuous operation. Not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide. Classified by Underwriters Laboratories Inc. with respect to electric shock, fire, and mechanical hazards only, in accordance with UL 60601-1, ASTM F2196-02, and Canadian/CSA C22.2, No. 601.1. Classified under the Medical Device Directive (93/42/EEC) as a Class IIa device.



CLASSIFICATIONS



Specifications - Continued

Electrical Characteristics

BLOWER MOTOR	Airflow: 7-9 cfm
POWER CONSUMPTION	Peak: 290W Average: 150W
LEAKAGE CURRENT	Meets IEC 60601-1 and UL 60601-1 requirements
HEATING ELEMENT	285W Resistive
POWER CORD	15-foot, SJT, 3 cond., 10A
DEVICE RATINGS	110-120 VAC, 60 Hz, 3.0 A
FUSES	3.0 A
TEMPERATURE CONTROLLER CORD	32" from hose collar, 4 cond., Max. voltage: 5V



Maintenance Log



Maintenance Log

Definition of Symbols

The following symbols may appear on the product, on the exterior packaging, or in the product labeling.



ON/STANDBY



Temperature control



Equipotentiality plug (ground)



Fuse



Attention, consult accompanying documents



Nonexplosion proof



Dangerous voltage



Type BF Equipment (patient applied)



Voltage, alternating current (AC)



Protective earth ground



Ground



Class II Equipment



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www.bairpaws.com

Bair Hugger, Bair Paws, Arizant, Arizant Healthcare, bright ideas that work, and the Bair Paws and Arizant logos are trademarks of Arizant Healthcare Inc., registered or pending in the U.S. Patent & Trademark Office and in other countries.

U.S. Patent 6,876,884; D485,338. Other patents pending.

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